

MEMORANDUM

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| DATE: | May 9 th , 2016 |
| FROM: | Eric Lancaster |
| SUBJECT: | Weekly Progress Report @ Gold King |
| TO: | Steven Way |

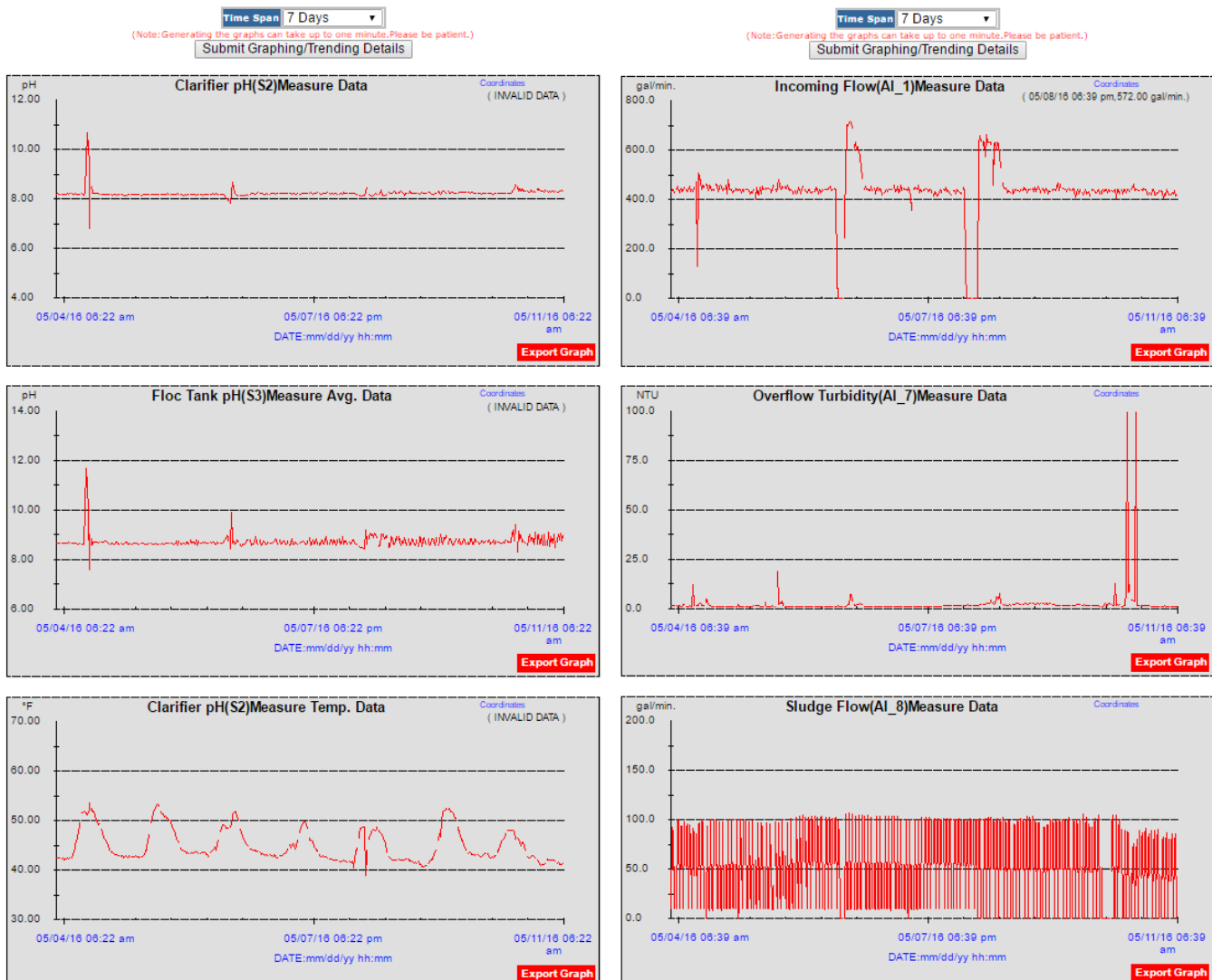
Project: Gold King Interim Water Treatment Plant (IWTP)
Location: Gladstone, Colorado
Prepared for: Emergency Response Unit – US EPA Region 8

Reporting Period: May 2 – May 9
Report No.: 20

I. General Operations Summary:

IWTS Function/Upsets

- The following graphs provide trending information during the previous 7 days. The dataloggers collect control information from the Lime Circuit (left) and Flow Circuit (right) Programmable Logic Controllers (PLCs) at the Gold King IWTP. Over the reporting period (5/2/16 – 5/9/16 inclusive) Alexco treated 4.11 million gallons at an average flow rate of 408 gpm with all discharged treated water leaving the 12" HDPE pipeline.



- Please note: Several days each week, the Alexco operators check the pH at both the flocc tank and clarifier discharge. During this time, the probe is placed in vinegar (acid), and three pH buffers – 4, 7, and 10. While the probe is in the acid/buffer, the datalogger may capture one of those points for tracking purposes, which explains the occasional pH spikes seen on the graph.
- On 5/6 and 5/8, the Alexco operator closed the incoming butterfly valves to allow for connections of the new clarifier at the reactor tank.

Communication System Function Status

- No issues – reliable operations during the reporting period.

Facility or System Related Work, including Repairs & Completions

- **Electrical Upgrades** – Alexco's selected electrical contractor (Rapid Energy) began electrical upgrades on Friday, April 15th. These improvements will allow the IWTP to pass a final electrical inspection by the State Inspector. That final inspection is scheduled for Wednesday, May 11th.
- **MobileMini** – The MobileMini is located near the main concrete pad and connected to grid power.

II. Identified Problems, Causes, and Solutions (Planned or Implemented)

- **Spring Melt Contingency Updates:**
 - **Second Clarifier** – Alexco has received written notice to move forward with the installation/operation of a rental clarifier and supporting infrastructure required for spring melt. The system was tested and became operational on Sunday, May 8th.
 - **Additional Bags** – Alexco has additional textile bags (2X 125' x 45 and 1X 90' x 45') located at site that can contain an additional 2,000 CY of sludge. Alexco is able to install one or two of these additional textile bags as needed during spring melt.

III. System Inspections – Specific elements inspected and finding

- N/A

IV. Site Status

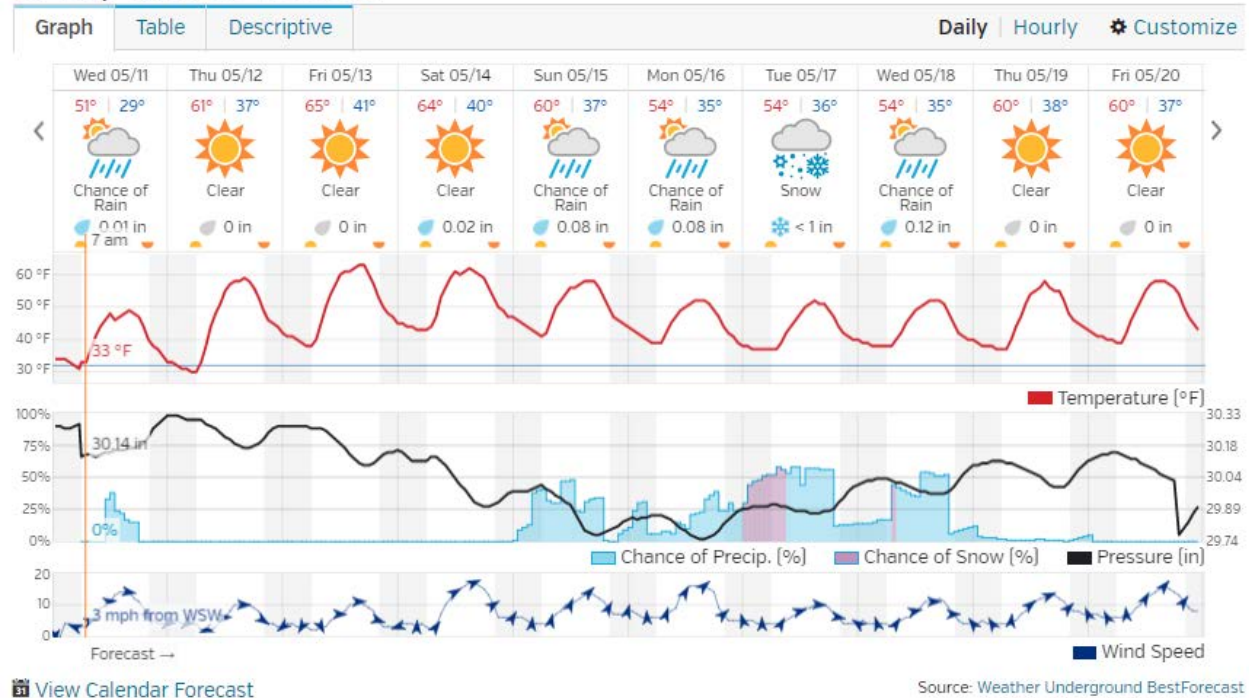
Personnel and equipment onsite

- Alexco currently employs one full-time employee (FTE) who lives in Silverton and oversees all operations at the Gold King IWTP. He is supported by remote operators in Denver, and local sub-contractors as needed.

Weather conditions

- Weather Underground Report for Silverton, CO (5/11/2016 – 5/20/2016)

10-Day Weather Forecast



Site Images



Photo 1: Site from the road near the IWTP discharge pipe – Taken on 5/10/2016



Photo 2: Completed installation of the 2nd clarifier – Taken on 4/10/2016